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Titolo	Slice Hyperholomorphic Schur Analysis // by Daniel Alpay, Fabrizio Colombo, Irene Sabadini
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ISBN	3-319-42514-5
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Descrizione fisica	1 online resource (XII, 362 p.)
Collana	Operator Theory: Advances and Applications, , 2296-4878 ; ; 256
Disciplina	515.782
Soggetti	Functions of complex variables Functional analysis Operator theory Functions of a Complex Variable Functional Analysis Operator Theory
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and indexes.
Nota di contenuto	Part I: Classical Schur analysis -- Preliminaries -- Rational functions -- Schur analysis -- Part II: Quaternionic analysis -- Finite dimensional preliminaries -- Quaternionic functional analysis -- Slice hyperholomorphic functions -- Slice hyperholomorphic operator-valued functions -- Part III: Quaternionic Schur analysis -- Reproducing kernel spaces and realizations -- Rational slice hyperholomorphic functions -- First applications: scalar interpolation and first order discrete systems -- Interpolation: operator-valued case.
Sommario/riassunto	This book defines and examines the counterpart of Schur functions and Schur analysis in the slice hyperholomorphic setting. It is organized into three parts: the first introduces readers to classical Schur analysis, while the second offers background material on quaternions, slice hyperholomorphic functions, and quaternionic functional analysis. The third part represents the core of the book and explores quaternionic Schur analysis and its various applications. The book includes previously unpublished results and provides the basis for new directions of research.

